

WHAT IS CLAIMED IS:

1 1. For use with a garage door operating system comprising a
2 wireless garage door transmitter, a system for actuating the garage door transmitter
3 comprising:

4 a vehicle transmitter for transmitting a wireless garage door
5 transmitter control signal, and

6 a control module for mounting in a structure comprising a garage, the
7 control module adapted to receive the garage door transmitter, the control module
8 comprising,

9 a receiver for receiving the garage door transmitter control
10 signal,

11 a controller to be provided in communication with the receiver
12 for generating a garage door transmitter actuator control signal in response to the
13 garage door transmitter control signal, and

14 an actuator to be provided in communication with the
15 controller, the actuator for activating the garage door transmitter in response to the
16 garage door actuator control signal so that the garage door transmitter transmits a
17 wireless garage door control signal for use in operating a garage door.

1 2. The system of claim 1 wherein the vehicle transmitter is to be
2 mounted in the vehicle.

1 3. The system of claim 1 wherein the vehicle transmitter is for use
2 by a vehicle occupant.

1 4. The system of claim 1 wherein the control module further
2 comprises a battery for providing electrical power to at least the actuator.

1 5. The system of claim 1 wherein the actuator comprises a solenoid,
2 the garage door transmitter includes a transmitter activation button, and the solenoid
3 is adapted to be positioned adjacent the transmitter activation button.

1 6. The system of claim 1 wherein the garage door transmitter control
2 signal includes an identification code, and wherein the controller determines if the
3 identification code is valid and generates the garage door transmitter actuator control
4 signal in response to the garage door transmitter control signal only if the
5 identification code is determined valid.

1 7. The system of claim 1 wherein the garage door transmitter control
2 signal is encrypted, and wherein the vehicle transmitter is adapted to encrypt the
3 garage door transmitter control signal and the controller is adapted to decrypt the
4 garage door transmitter control signal.

1 8. For use with a garage door operating system comprising a
2 wireless garage door transmitter, a system for actuating the garage door transmitter
3 comprising:

4 a vehicle transceiver for receiving a wireless interrogation signal and
5 automatically transmitting a wireless garage door transmitter control signal in
6 response thereto; and

7 a control module for mounting in a structure comprising a garage, the
8 control module adapted to receive the garage door transmitter, the control module
9 comprising,

10 a transceiver for automatically transmitting the interrogation
11 signal, and for receiving the garage door transmitter control signal,

12 a controller to be provided in communication with the
13 transceiver for generating a garage door transmitter actuator control signal in
14 response to the garage door transmitter control signal, and

15 an actuator to be provided in communication with the
16 controller, the actuator for activating the garage door transmitter in response to the
17 garage door actuator control signal so that the garage door transmitter transmits a
18 wireless garage door control signal for use in operating a garage door.

1 9. The system of claim 8 wherein the vehicle transceiver is to be
2 mounted in a vehicle.

1 10. The system of claim 8 wherein the control module further
2 comprises a battery for providing electrical power to at least the actuator.

1 11. The system of claim 8 wherein the actuator comprises a solenoid,
2 the garage door transmitter includes a transmitter activation button, and the solenoid
3 is adapted to be positioned adjacent the transmitter activation button.

1 12. The system of claim 8 wherein the garage door transmitter
2 control signal includes an identification code, and wherein the controller
3 determines if the identification code is valid and generates the garage door
4 transmitter actuator control signal in response to the garage door transmitter control
5 signal only if the identification code is determined valid.

1 13. The system of claim 8 wherein the garage door transmitter
2 control signal is encrypted, and wherein the vehicle transceiver is adapted to encrypt
3 the garage door transmitter control signal and the controller is adapted to decrypt
4 the garage door transmitter control signal.

1 14. For use with a garage door operating system comprising a
2 wireless garage door transmitter, a method for actuating the garage door transmitter
3 comprising:

4 providing a control module for mounting in a structure comprising
5 a garage, the control module adapted to receive the garage door transmitter, the
6 control module comprising,

7 a receiver for receiving a wireless garage door transmitter
8 control signal,

9 a controller to be provided in communication with the receiver
10 for generating a garage door transmitter actuator control signal in response to the
11 garage door transmitter control signal, and

12 an actuator to be provided in communication with the
13 controller, the actuator for actuating the garage door transmitter in response to the

14 garage door actuator control signal so that the garage door transmitter transmits a
15 wireless garage door control signal for use in operating a garage door.

1 15. The method of claim 14 further comprising providing a vehicle
2 transmitter for use in transmitting the garage door transmitter control signal.

1 16. The method of claim 15 wherein the vehicle transmitter is to be
2 mounted in the vehicle.

1 17. The method of claim 15 wherein the vehicle transmitter is for use
2 by a vehicle occupant.

1 18. The method of claim 14 wherein the control module further
2 comprises a battery for providing electrical power to at least the actuator.

1 19. The method of claim 14 wherein the actuator comprises a
2 solenoid, the garage door transmitter includes a transmitter activation button, and
3 the solenoid is adapted to be positioned adjacent the transmitter activation button.

1 20. The method of claim 14 wherein the garage door transmitter
2 control signal includes an identification code, and wherein the controller
3 determines if the identification code is valid and generates the garage door
4 transmitter actuator control signal in response to the garage door transmitter control
5 signal only if the identification code is determined valid.

1 21. The method of claim 14 wherein the garage door transmitter
2 control signal is encrypted, and the controller is adapted to decrypt the garage door
3 transmitter control signal.

1 22. The method of claim 15 wherein the garage door transmitter
2 control signal is encrypted, and wherein the vehicle transmitter is adapted to encrypt
3 the garage door transmitter control signal and the controller is adapted to decrypt
4 the garage door transmitter control signal.

1 23. For use with a garage door operating system comprising a
2 wireless garage door transmitter, a method for actuating the garage door transmitter
3 comprising:

4 providing a control module for mounting in a structure comprising
5 a garage, the control module adapted to receive the garage door transmitter, the
6 control module comprising,

7 a transceiver for automatically transmitting a wireless
8 interrogation signal and for receiving a wireless garage door transmitter control
9 signal,

10 a controller to be provided in communication with the
11 transceiver for generating a garage door transmitter actuator control signal in
12 response to the garage door transmitter control signal, and

13 an actuator to be provided in communication with the
14 controller, the actuator for actuating the garage door transmitter in response to the
15 garage door actuator control signal so that the garage door transmitter transmits a
16 wireless garage door control signal for use in operating a garage door.

1 24. The method of claim 23 further comprising providing a vehicle
2 transceiver for receiving the interrogation signal and automatically transmitting the
3 garage door transmitter control signal in response thereto.

1 25. The method of claim 24 wherein the vehicle transceiver is to be
2 mounted in a vehicle.

1 26. The method of claim 23 wherein the control module further
2 comprises a battery for providing electrical power to at least the actuator.

1 27. The method of claim 23 wherein the actuator comprises a
2 solenoid, the garage door transmitter includes a transmitter activation button, and
3 the solenoid is adapted to be positioned adjacent the transmitter activation button.

1 28. The method of claim 23 wherein the garage door transmitter
2 control signal includes an identification code, and wherein the controller
3 determines if the identification code is valid and generates the garage door
4 transmitter actuator control signal in response to the garage door transmitter control
5 signal only if the identification code is determined valid.

1 29. The method of claim 23 wherein the garage door transmitter
2 control signal is encrypted, and the controller is adapted to decrypt the garage door
transmitter control signal.

1 30. The method of claim 24 wherein the garage door transmitter
2 control signal is encrypted, and wherein the vehicle transceiver is adapted to encrypt
3 the garage door transmitter control signal and the controller is adapted to decrypt
4 the garage door transmitter control signal.

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